

# Evaluation of Measurement Uncertainties

## **GOALS**

- Being able to assess the measurement uncertainty associated with quantitative measurements (when using reproducible processes)
- To update or supplement one's knowledge in the field of statistics and mathematics useful for understanding this field
- Being able to apply acquired knowledge to one's professional and specific context

## **PROGRAMME**

- Obtain the value of the measured quantity
- Calculate the elementary uncertainties
- Understanding how the elementary uncertainties, which contribute to the uncertainty of the measured value, are calculated
- Understanding how they are related and how their links are taken into account to calculate the uncertainty of the measured quantity
- Express the measurement result (associate the measured value and its uncertainty to obtain a measurement result traceable to the units of the International System of Units).

## **PREREQUISITES**

- Basic concepts in mathematics and statistics
- Understanding the metrology environment

## **TARGET AUDIENCE**

- Anyone wishing to deepen their knowledge and skills in uncertainty calculation
- Anyone wishing to learn how to evaluate measurement uncertainties or to update their knowledge in this field

Please contact us for any information regarding the conditions of reception and access for people with disabilities.

## **DURATION**

3 days (21 hours)

## **PRICES**

**Inter-company training:** 2 000,00 € HT/participant (3 participants minimum)

**In-house training:** please contact us

## **TERMS AND CONDITIONS OF ACCESS**

**INTER:** Registration is open until two weeks before the training date.

**INTRA:** training can be provided one month after acceptance of the quote (for information purposes only).

## **METHODS USED**

The training is based on alternating theoretical input, games, examples and/or practical cases.

Trainees will need to bring a laptop.

A folder is given to participants at the end of the session.

*(containing the theoretical principles stated during the training and the exercise materials).*

## **EVALUATION METHODS**

Trainees' knowledge acquisition is generally validated by a quiz.

It can also be assessed using other methods *(at the trainer's discretion and/or in agreement with the client).*

At the end of the training, a certificate is issued based on the results of the assessments.

